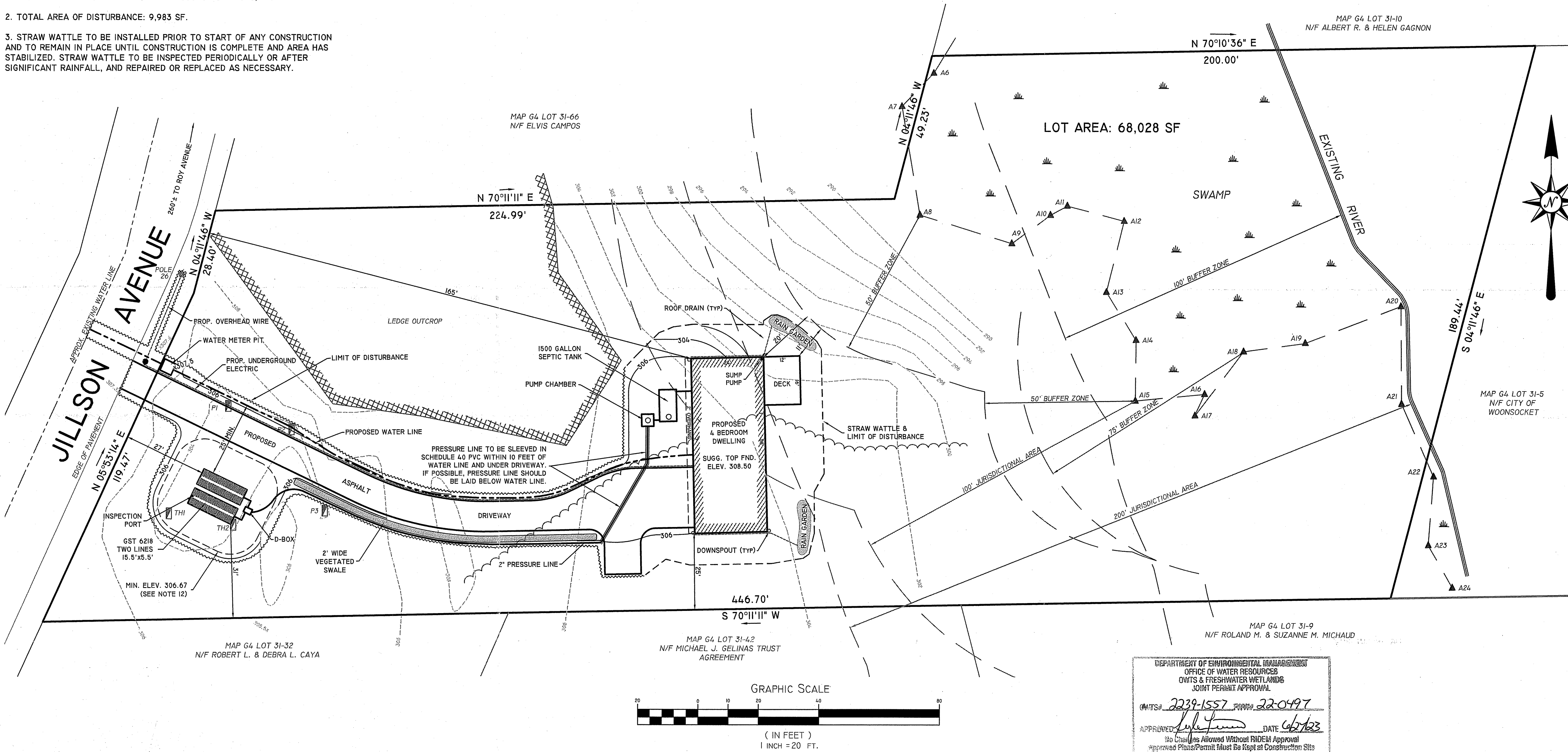


WETLAND NOTES AND SPECIFICATIONS:

1. WETLAND DELINEATION BY NATURAL RESOURCE SERVICES, INC.

2. TOTAL AREA OF DISTURBANCE: 9,983 SF.

3. STRAW WATTLE TO BE INSTALLED PRIOR TO START OF ANY CONSTRUCTION AND TO REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE AND AREA HAS STABILIZED. STRAW WATTLE TO BE INSPECTED PERIODICALLY OR AFTER SIGNIFICANT RAINFALL, AND REPAIRED OR REPLACED AS NECESSARY.



OWTS NOTES AND SPECIFICATIONS:

1. LEACHING TRENCHES TO BE EXCAVATED IN ACCORDANCE WITH RIDEM REGULATION 6.33(J). TREES, BRUSH AND STUMPS WITHIN AND EXTENDING 10 FEET BEYOND LEACHFIELD TO BE REMOVED. 5" STRIP APPLIES.
2. USE SDR #35 PVC PIPING OR EQUIVALENT THROUGHOUT SYSTEM.
3. NO WELL EXISTS WITHIN 100' OF THE PROPOSED LEACHING SYSTEM.
4. ZABEL EFFLUENT FILTER TO BE INSTALLED AT SEPTIC TANK OUTLET.
5. NO WELLS, EXISTING OR PROPOSED, ARE WITHIN 200' FEET OF OWTS. NO PUBLIC WELLS, EXISTING OR PROPOSED, ARE WITHIN 500' OF THE OWTS UNLESS SHOWN.
6. BRING SEPTIC TANK MANHOLE TO GRADE AND D-BOX MANHOLE TO WITHIN 12" OF GRADE.
7. SEPTIC TANK TO BE A MINIMUM OF 75' FROM ALL WELLS.
8. ENDS OF LINES IN TRENCH TO BE INTERCONNECTED.
9. D-BOX TO HAVE A MINIMUM BOTTOM AREA OF 3 SQUARE FEET AND MEET H-20 WHEEL LOADS WITH MARKER SET TO GRADE.
10. SANITARY TEES TO BE INSTALLED IN SEPTIC TANK.
11. NO DRAINS OF ANY KIND SHALL BE WITHIN 25' UP OR SIDE GRADIENT OR 50' DOWN GRADIENT OF THE LEACHING SYSTEM.
12. 10' FROM LEACHING AREA NOT TO BE LOWER THAN ELEV.: 306.67.
13. COVER OVER SEPTIC TANK TO BE GRADED TO DIVERT SURFACE RUNOFF.
14. D-BOX TO HAVE TEES OR BAFFLE.
15. WASHING MACHINE LINT FILTER IS STRONGLY RECOMMENDED TO PREVENT PREMATURE FAILURE OF ELJEN SYSTEM.
16. SYSTEM INSTALLATION TO BE SUPERVISED BY THE DESIGNER.
17. DURING INSTALLATION, ANY DEVIATIONS FROM THE PLAN FOUND IN THE FIELD SHALL BE BROUGHT TO THE DESIGNERS ATTENTION BEFORE PROCEEDING.

TEST HOLE DATA

DATE: 2-24-22

TH 1
0'-24" BW, SL, 2.5YR 6/6
24"-60" C, SL, 2.5YR 6/4
SHWT: 36"
LEDGE 60"

TH 2
0'-44" A SL, 10YR 3/4
4"-22" BW, SL, 2.5YR 6/6
22"-62" C, SL, 2.5YR 6/4
SHWT: 36"
LEDGE 62"

LEDGE PROBES
P1 - 50"
P2 - 50"
P3 - 49"

DESIGN CALCULATIONS

4 BEDROOMS = 115 GPD PER BEDROOM = 460 GPD
SOIL CATEGORY: 6
DESIGN LOADING RATE: 0.61
460/0.61 = 755 SF MINIMUM
FIELD SIZE
GST 6218: 755/24.8 = 30.4 LF REQUIRED
TWO LINES 15.5' LONG = 31 LF PROVIDED

3/4" STONE VOLUME: .35 CF/LF x 31 LF = 10.85 CF
C-33 SAND VOLUME: .46 CF/LF x 31 LF = 1.26 CF

LEGEND

600 - - - - - 600 EXISTING CONTOUR
600 - - - - - 600 PROPOSED CONTOUR
▲ WETLAND FLAG
▲ WETLAND EDGE
- - - - - STRAW WATTLE & LIMIT OF DISTURBANCE
- - - - - LIMIT OF DISTURBANCE

TH TEST HOLE

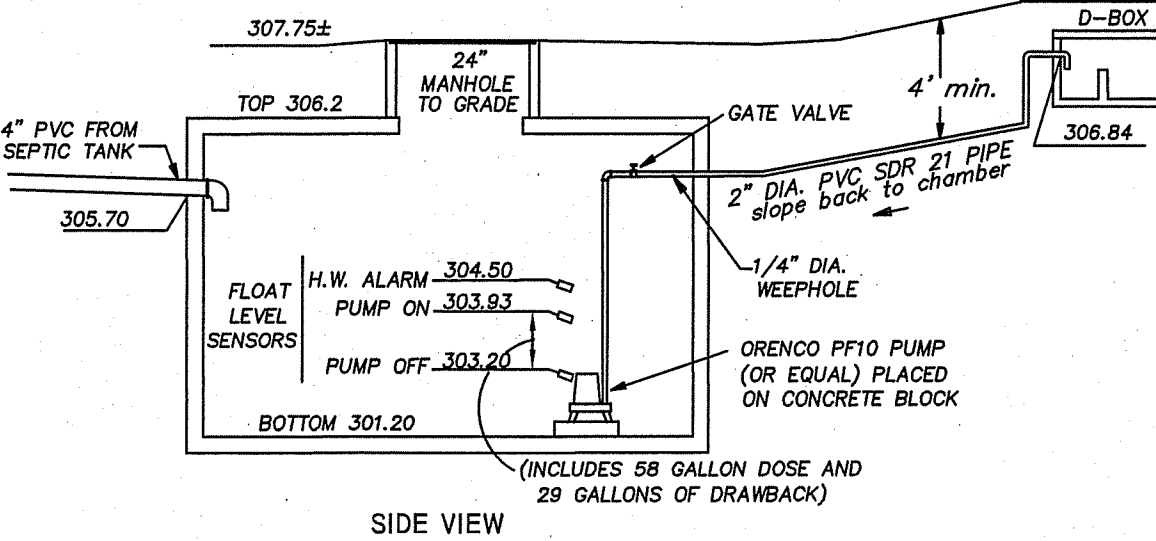
RI Environmental Management
JUN 06 2023
Office of Water Resources

ZONING DISTRICT: R-1

MINIMUM SETBACKS: FRONT - FRONT 35 FT.
SIDE - 25 FT.
REAR - 50 FT.

4'x4' PUMP CHAMBER

NOT TO SCALE



TREATMENT

RAIN GARDEN TO BE 8" DEEP WITH A 2 - 4 INCH AMENDED SOIL LAYER (50/50 MIXTURE OF THE EXCAVATED NATIVE SOILS AND MATURE ORGANIC COMPOST) AND A 2 - 3 INCH LAYER OF NON-DYED AGED SHREDDED HARDWOOD MULCH.

CONSTRUCTION

1. A CRUSHED STONE ENTRANCE SHOULD BE INSTALLED AT THE INFLOW TO PREVENT CHANNELING.
2. A BERM TO DETAIN STORMWATER SHOULD BE CONSTRUCTED ALONG THE DOWNHILL SIDE OF THE RAIN GARDEN, PERPENDICULAR TO THE SLOPE OF THE LAWN.
3. BE SURE THAT THE SOIL WITHIN THE RAIN GARDEN AREA DOES NOT BECOME COMPACTED BY CONSTRUCTION ACTIVITIES (I.E. HEAVY MACHINERY). IF SOIL BECOMES SEVERELY COMPACTED IT MAY NEED TO BE TILLED AND AMENDED TO MAINTAIN PROPER DRAINAGE.

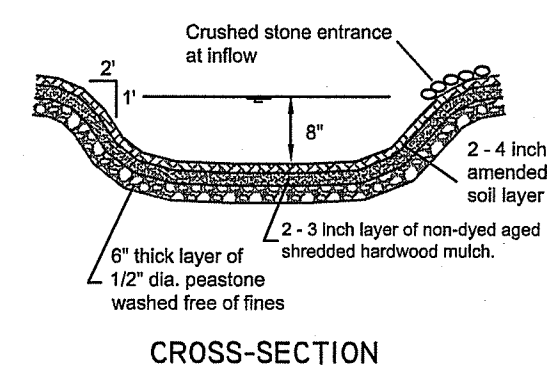
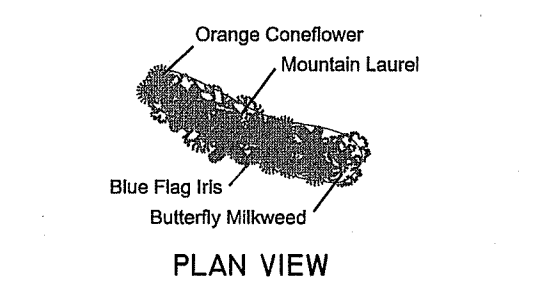
MAINTENANCE

1. THE RAIN GARDEN SHALL BE INSPECTED FOLLOWING AT LEAST THE FIRST TWO PRECIPITATION EVENTS OF AT LEAST 1.0 INCH TO ENSURE THAT THE SYSTEM IS FUNCTIONING PROPERLY. THEREAFTER, THE RAIN GARDEN SHALL BE MONITORED AND MAINTAINED TO ASSURE PROPER FUNCTIONING, PLANT GROWTH AND SURVIVAL. PLANTS SHALL BE REPLACED ON AN AS-NEEDED BASIS DURING THE GROWING SEASON.
2. SILT/SEDIMENT SHALL BE REMOVED FROM THE RAIN GARDEN WHEN THE ACCUMULATION EXCEEDS ONE INCH, OR WHEN WATER PONDING ON THE SURFACE OF THE RAIN GARDEN FOR MORE THAN 48 HOURS). THE TOP FEW INCHES OF MATERIAL SHALL BE REMOVED AND SHALL BE REPLACED WITH FRESH SOIL MIXTURE AND MULCH.
3. PRUNING OR REPLACEMENT OF WOODY VEGETATION SHALL OCCUR WHEN DEAD OR DYING VEGETATION IS OBSERVED.
4. SOIL EROSION GULLIES SHALL BE REPAIRED WHEN THEY OCCUR.
5. FERTILIZER OR PESTICIDES SHALL NOT BE APPLIED TO PLANTS WITHIN RAIN GARDENS.
6. PERENNIAL PLANTS AND GROUND COVERS SHALL BE REPLACED AS NECESSARY TO MAINTAIN AN ADEQUATE VEGETATED GROUND COVER. ANNUAL PLANTS MAY ALSO BE USED TO MAINTAIN GROUND COVER.

RAIN GARDEN

NOT TO SCALE

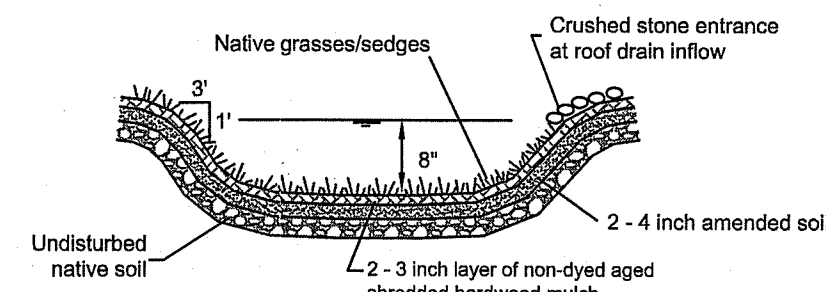
ROOF AREA: 754 SF (1,508 SF TOTAL)
EACH RAIN GARDEN AREA: 64 SF 16 PLANTS



VEGETATED SWALE

NOT TO SCALE

DRIVEWAY: 2,537 SF IMPERVIOUS
SWALE: 2' WIDE X 104' LONG = 208 SF

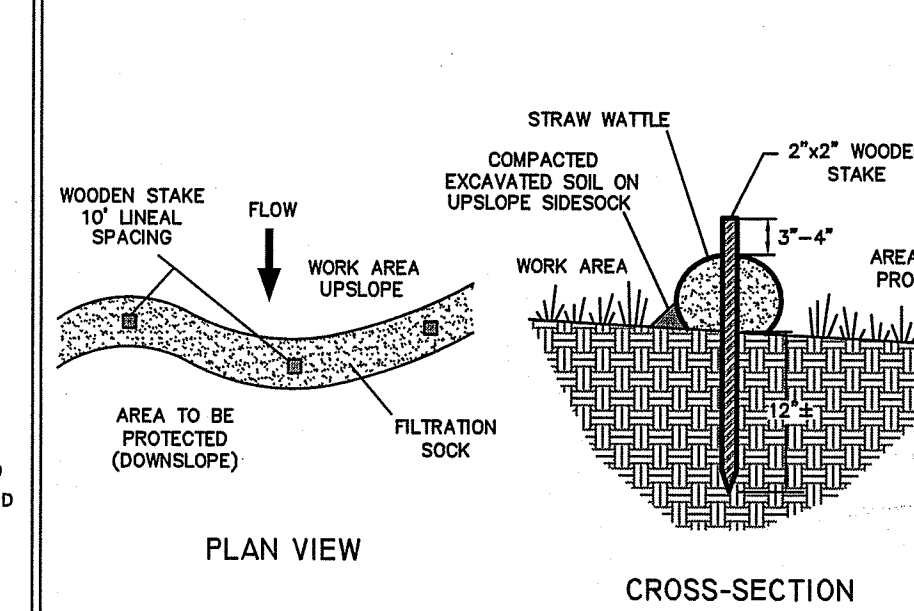


VEGETATIVE SWALE MAINTENANCE

1. THE VEGETATED SWALE SHALL BE INSPECTED ANNUALLY AND AFTER LARGE STORM EVENTS.
2. ERODED SIDE SLOPES AND CHANNEL BOTTOM SHALL BE STABILIZED AS NECESSARY.
3. IF THE SURFACE OF THE DRY SWALE BECOMES CLOGGED TO THE POINT THAT STANDING WATER IS OBSERVED ON THE SURFACE 48 HOURS AFTER PRECIPITATION EVENTS, THE BOTTOM SHALL BE ROTO-TILLED OR CULTIVATED TO BREAK UP ANY HARD-PACKED SEDIMENT, AND THEN RESEDED.
4. VEGETATION IN DRY SWALES SHALL BE MOWED AS REQUIRED TO MAINTAIN MINIMUM GRASS HEIGHTS IN THE 4-6 INCH RANGE.
5. EVERY FIVE YEARS, THE CHANNEL BOTTOM OF DRY SWALES SHOULD BE SCRAPED TO REMOVE SEDIMENT AND TO RESTORE ORIGINAL CROSS SECTION AND INFILTRATION RATE, AND SHOULD BE SEED TO RESTORE GROUND COVER, WHERE NECESSARY.

STRAW WATTLE

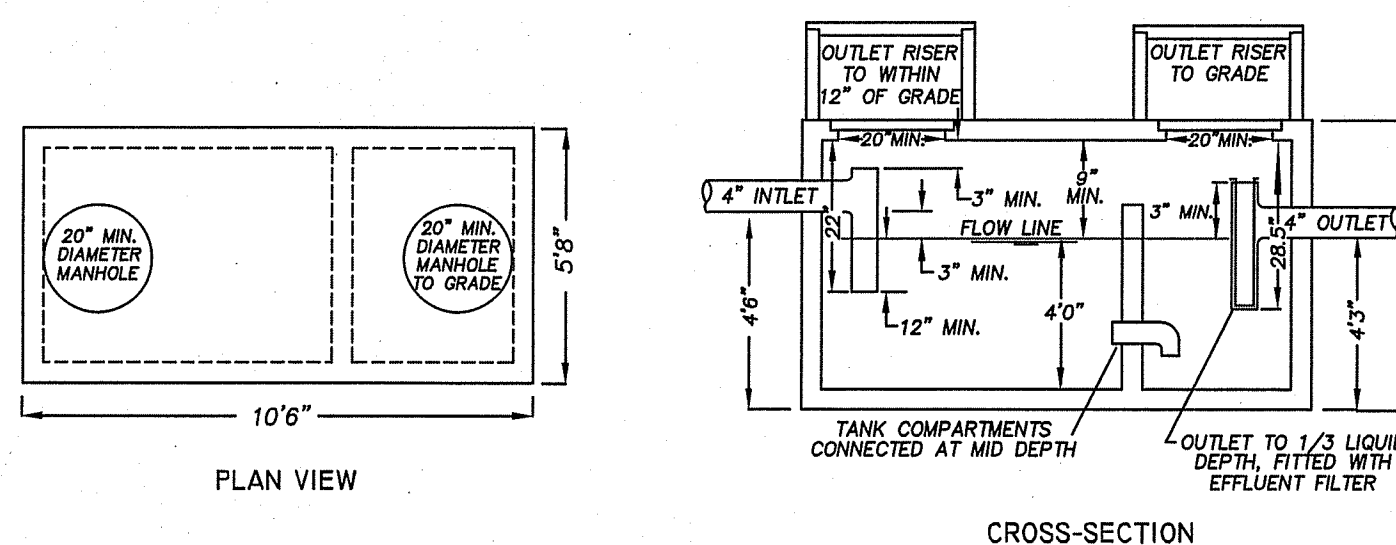
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1,500 GALLON 2-COMPARTMENT SEPTIC TANK

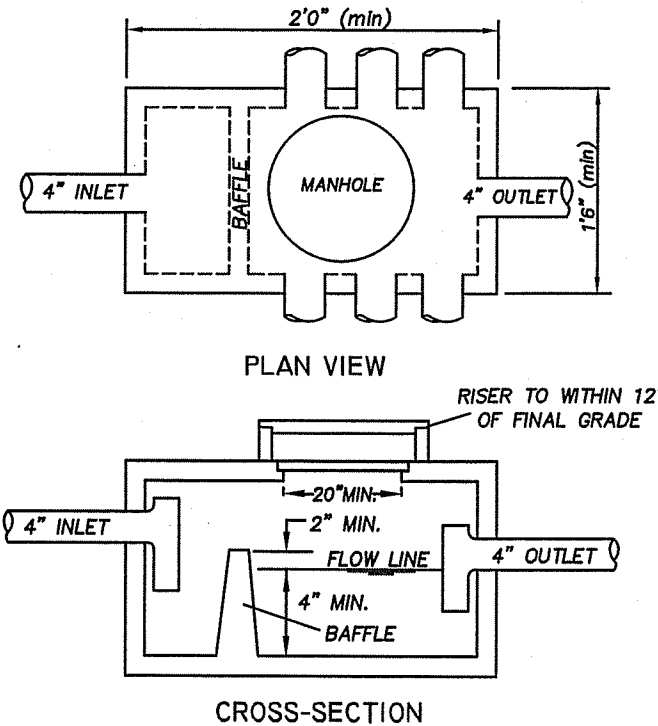
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NOTE: GRADE TO DIVERT SURFACE RUNOFF



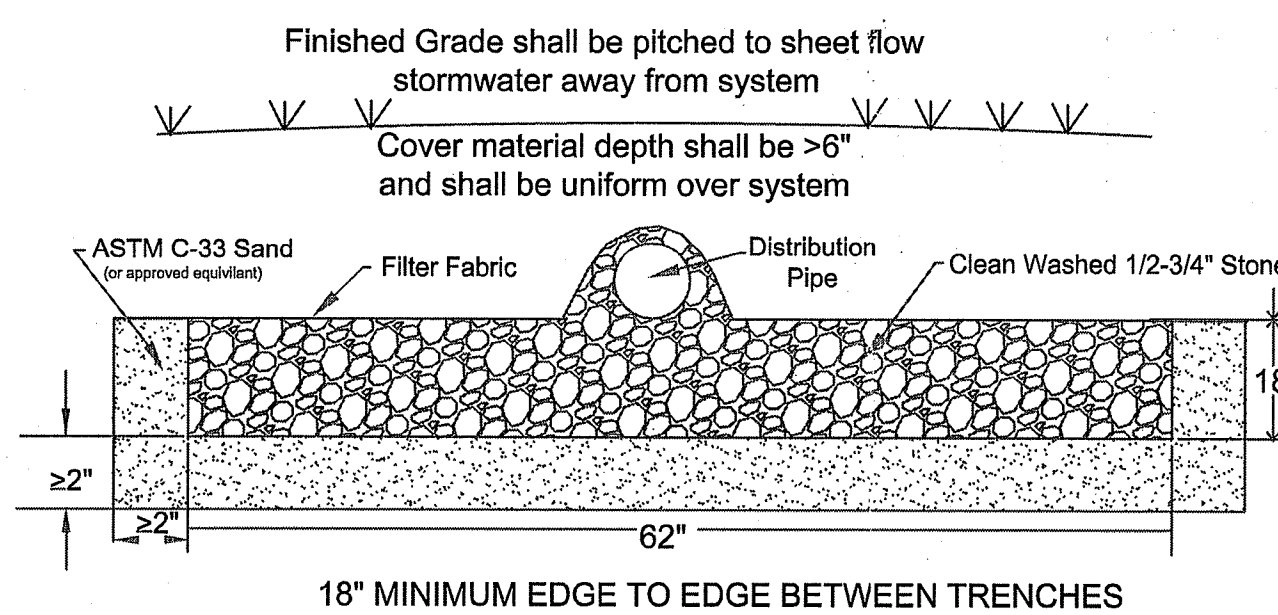
SYSTEM PROFILE

NOT TO SCALE



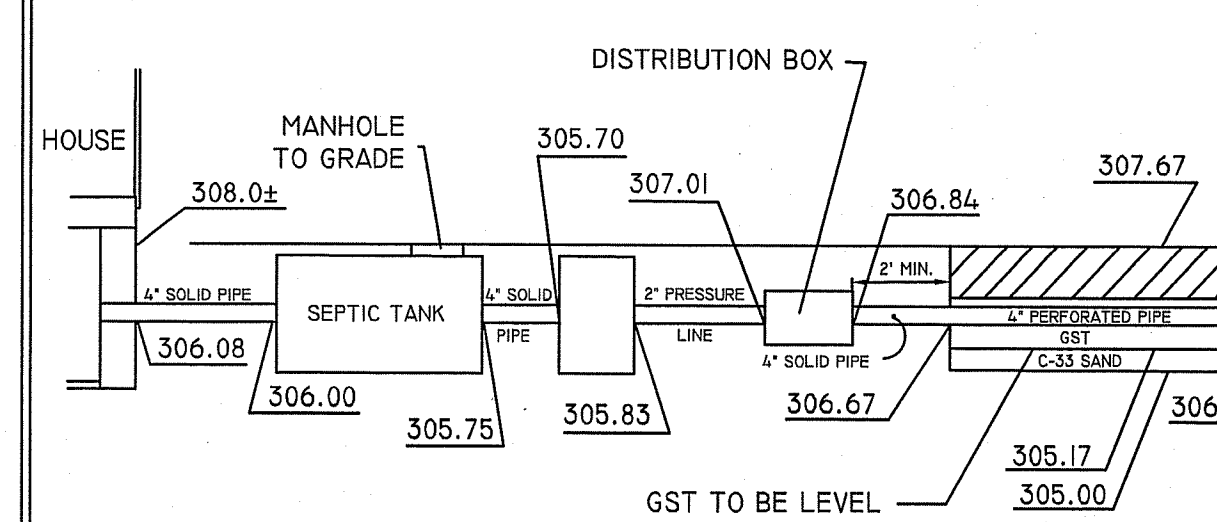
GST™ 6218 LEACHING SYSTEM CROSS-SECTION

NOT TO SCALE

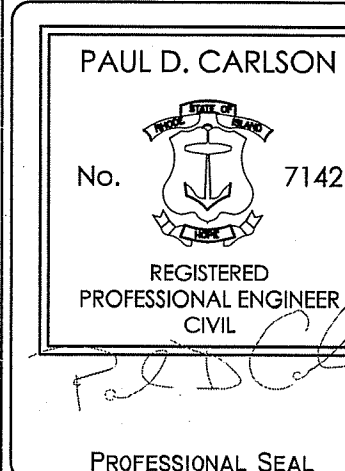


SYSTEM PROFILE

NOT TO SCALE



ONSITE WASTEWATER TREATMENT SYSTEM PLAN



ASSESSOR'S PLAT 31 LOT 77
JILLSON AVENUE, WOONSOCKET, RHODE ISLAND

PREPARED FOR: JEFF PIETTE

1340 WOONSOCKET HILL RD, NORTH SMITHFIELD, RI 02896

JOB # 22-001A SCALE: 1" = 20' DRAWN BY: LMB DATE: NOVEMBER, 2022

REVISED: 11-28-22, 5-22-23



InSite Professional Complex, Suite 1
1530 Fall River Avenue, Seekonk, MA 02771
Phone: (508) 336-4500 Fax: (508) 336-4558
501 Great Road, Unit 104
North Smithfield, RI 02896
Phone: (401) 762-2870 Fax: (401) 762-2871
Web Address: InSiteEngineers.com

SHEET
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